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1 Computer science in health and education: The use of smart devices in eHealth   ■
John Fulcher
September 2003 **Proceedings of the 1st international symposium on Information and communication technologies ISICT '03**
Publisher: Trinity College Dublin
Full text available: 🗎 pdf(124.20 KB)   Additional Information: full citation, abstract, references

> Results from a field trial involving the use of USB iKeys as a secure access mechanism for remote access of patient medical records from a central server are reported. These are discussed within the context of eHealth generally, where technological considerations can easily be outweighed by concerns of patient privacy, security and confidentiality.

2 Logical and physical design issues for smart card databases   ☐
Cristiana Bolchini, Fabio Salice, Fabio A. Schreiber, Letizia Tanca
July 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 3
Publisher: ACM Press
Full text available: 🗎 pdf(1.12 MB)   Additional Information: full citation, abstract, references, citings, index terms

> The design of very small databases for smart cards and for portable embedded systems is deeply constrained by the peculiar features of the physical medium. We propose a joint approach to the logical and physical database design phases and evaluate several data structures with respect to the performance, power consumption, and endurance parameters of read/program operations on the Flash-EEPROM storage medium.
>
> **Keywords**: Design methodology, access methods, data structures, flash memory, personal information systems, smart card

3 Management guidelines for PC security   ☐
Troy E. Anderson
July 1994 **ACM SIGICE Bulletin**, Volume 20 Issue 1
Publisher: ACM Press
Full text available: 🗎 pdf(901.93 KB)   Additional Information: full citation, abstract, references, index terms

> In the last several years, the number of personal computers (PCs) in offices worldwide has skyrocketed. In fact, some businesses now have PC bases in the thousands, a fact which makes company security officers' jobs a nightmare. Much of the existing literature

addresses security in general, or security in large mainframe environments. The goal of this paper is to present potential security problems for stand-alone and networked PCs, and to offer guidelines to prevent or avoid these threats to PC ...

4 Mobility and sociability: Smart card product development in an internet-based CRM environment
Pat O'Brien, Laith Murad, Simon Gibbs, Richter Rafey
November 2005 **Proceedings of the 2005 conference on Designing for User eXperience DUX '05**
Publisher: AIGA: American Institute of Graphic Arts
Full text available: 📄 .pdf(773.44 KB)   Additional Information: full citation, abstract, references

Smart cards have been successfully deployed in Europe and Asia. The European Community considers them imperative and is funding 65 card development projects. In the US, however, the cards hold less interest and have been less successful.Technology diffusion research indicates social learning is critical to adoption. A small cadre of early adopters, through visible daily use of new products, creates a perception among other consumers that new products are beneficial and desirable.This study devel ...

Keywords: CRM, FeliCa, concept design, handheld devices and mobile computing, marketing / market research, product management, prototyping, smart card, ubiquitous computing / smart environments, user research, user studies

5 Smart card: Modelling audit security for Smart-Card payment schemes with UML-SEC
Jan Jürjens
June 2001 **Proceedings of the 16th international conference on Information security: Trusted information: the new decade challenge Sec '01**
Additional Information: full citation, abstract, references, index terms

To overcome the difficulties of correct secure systems design, we propose formal modelling using the object-oriented modelling language UML. Specifically, we consider the problem of accountability through auditing. We explain our method at the example of a part of the Common Electronic Purse Specifications (CEPS), a candidate for an international electronic purse standard, indicate possible vulnerabilities and present concrete security advice on that system. To overcome the difficulties of corre ...

6 Special session on mobile computing #1: Developing smart card applications using the OpenCard Framework
Mark Burge
April 2004 **Proceedings of the 42nd annual Southeast regional conference ACM-SE 42**
Publisher: ACM Press
Full text available: 📄 pdf(428.99 KB)   Additional Information: full citation, abstract, references, index terms

Smart cards provide a compact, secure, and widely used method for identifying ourselves and authenticating our transactions. With their increasing incorporation into credit cards and the cellular industries move toward smart card based GSM networks, they are positioned to become truly pervasive. Unfortunately, until now, teaching smart card development required expensive, specialized hardware and software as well as detailed, and usually proprietary, knowledge of the hardware and operating syste ...

Keywords: JCOP, Java Card, Mobile Computing, OpenCard Framework, Smart Cards, design patterns, pervasive computing

7 A web-enabled framework for smart card applications in health services

Alvin T. S. Chan, Jiannong Cao, Henry Chan, Gilbert Young
September 2001 **Communications of the ACM**, Volume 44 Issue 9

Publisher: ACM Press

Full text available: pdf(208.56 KB)   Additional Information: full citation, references, citings, index terms
html(29.84 KB)

8 Web technologies and applications (WTA): Cookies on-the-move: managing cookies on a smart card

Alvin T. S. Chan
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing SAC '04**

Publisher: ACM Press

Full text available: pdf(335.19 KB)   Additional Information: full citation, abstract, references

Despite the widespread use and adoption of cookies as the basis for web applications to keep state information, cookies present some design issues that are yet to be fully addressed. The fact that cookies are stored on client-side's memory means that they are tightly coupled to the machine that is interacting with the web server. Yet often, these cookies are initiated by web applications to identify user's preferences and identifications. As the user moves across different machines to access the ...

Keywords: Web, cookies, mobile, smart card

9 FACADE: a typed intermediate language dedicated to smart cards

Gilles Grimaud, Jean-Louis Lanet, Jean-Jacques Vandewalle
October 1999 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 7th European software engineering conference held jointly with the 7th ACM SIGSOFT international symposium on Foundations of software engineering ESEC/FSE-7**, Volume 24 Issue 6

Publisher: Springer-Verlag, ACM Press

Full text available: pdf(1.23 MB)   Additional Information: full citation, abstract, references, citings, index terms

The use of smart cards to run software modules on demand has become a major business concern for application issuers. Such down-loadable executable content needs to be trusted by the card execution environment in order to ensure that an instruction on a memory area is compliant with the definition of the data stored in this area (i.e. its type). Current solutions for smart cards rely on three techniques. For Java Card, either an off-card verifier-converter performs a static ...

10 Simulation of a smart card-based manufacturing system

S. Manivannan, Chen Zhou, M. Bullington, S. Narasimhan
December 1992 **Proceedings of the 24th conference on Winter simulation WSC '92**

Publisher: ACM Press

Full text available: pdf(891.73 KB)   Additional Information: full citation, references, index terms

11 Design analysis techniques: Energy-aware design techniques for differential power analysis protection

Luca Benini, Alberto Macii, Enrico Macii, Elvira Omerbegovic, Fabrizio Pro, Massimo Poncino
June 2003 **Proceedings of the 40th conference on Design automation DAC '03**

Publisher: ACM Press

Full text available: pdf(286.41 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Differential power analysis is a very effective cryptanalysis technique that extracts information on secret keys by monitoring instantaneous power consumption of cryptoprocessors. To protect against differential power analysis, power supply noise is added in cryptographic computations, at the price of an increase in power consumption. We present a novel technique, based on well-known power-reducing transformations coupled with randomized clock gating, that introduces a significant amount of scra ...

Keywords: differential power analysis, low-power design

12 <u>VLSI design: A novel architecture for power maskable arithmetic units</u>
L. Benini, A. Macii, E. Macii, E. Omerbegovic, M. Poncino, F. Pro
April 2003 **Proceedings of the 13th ACM Great Lakes symposium on VLSI GLSVLSI '03**
Publisher: ACM Press

Full text available: pdf(166.52 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Power maskable units have been proposed as a viable solution for preventing side-channel attacks to cryptoprocessors. This paper presents a novel architecture for the implementation of a class of such kinds of units, namely arithmetic components, which find wide usage in cryptographic applications and which are not suitable to traditional masking techniques. Results of extensive exploration and architectural trade-off analysis show the viability of the proposed solution.

Keywords: cryptography, low-power design, security

13 <u>Cross-domain one-shot authorization using smart cards</u>
Richard Au, Mark Looi, Paul Ashley
November 2000 **Proceedings of the 7th ACM conference on Computer and communications security CCS '00**
Publisher: ACM Press
Full text available: pdf(283.05 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Keywords: access control, authorization scheme, authorization server, one-shot authorization token, smart card

14 <u>Management guidelines for PC security</u>
Troy E. Anderson
March 1992 **ACM SIGSMALL/PC Notes**, Volume 18 Issue 1-2
Publisher: ACM Press
Full text available: pdf(549.37 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

"PC crime is a corporate fact of life, and as proprietary information becomes a strategic resource, its loss through manipulation, theft and viral infection threatens the very survival of businesses [Bakst, pg 44]." Awareness of security is an increasingly important topic in the business world, and in many other areas where computers are an essential part of the organization. As corporations attempt to protect their competitive positions in the national and international markets, managers are st ...

15
<u>Mobile cookies management on a smart card</u>

Alvin T. S. Chan
November 2005 **Communications of the ACM**, Volume 48 Issue 11
Publisher: ACM Press
Full text available: pdf(114.99 KB)
                         html(28.04 KB)   Additional Information: full citation, abstract, references, index terms

With CookiesCard, cookies are stored on users' smart cards, coupling cookies to users, not to their machines.

16 Compilation and power: Power consumption profile analysis for security attack simulation in smart cards at high abstraction level
K. Rothbart, U. Neffe, Ch. Steger, R. Weiss, E. Rieger, A. Muehlberger
September 2005 **Proceedings of the 5th ACM international conference on Embedded software EMSOFT '05**
Publisher: ACM Press
Full text available: pdf(273.40 KB)   Additional Information: full citation, abstract, references, index terms

Smart cards are embedded systems which are used in an increasing number of secure applications. As they store and deal with confidential and secret data many attacks are performed on these cards to reveal this private information. Consequently, the security demands on smart cards are very high. It is mandatory to evaluate the security of the design but this is performed often very late in the design process or when the chip has already been manufactured. This paper presents a hierarchical securi ...

Keywords: SystemC, analysis, attack, embedded security, fault injection, power profile, simulation, smart card

17 Countermeasures for attacks on satellite TV cards using open receivers
Lishoy Francis, William G. Sirett, Keith Mayes, Konstantinos Markantonakis
January 2005 **Proceedings of the 2005 Australasian workshop on Grid computing and e-research - Volume 44 ACSW Frontiers '05**
Publisher: Australian Computer Society, Inc.
Full text available: pdf(100.10 KB)   Additional Information: full citation, abstract, references, index terms

Digital content providers seek to restrict usage by implementing conditional access. One such scenario is the security aspects of digital video broadcast (DVB-S). There has been a history of attacks on this technology to circumvent any security measures and some techniques have been countered by the deployment of customised/provider specific receivers. However, this leads to less choice and the duplication of equipment at the customer level. Open satellite receivers have been introduced to allow ...

Keywords: DVB, attacks and countermeasures, satellite content

18 A Logic Level Design Methodology for a Secure DPA Resistant ASIC or FPGA Implementation
Kris Tiri, Ingrid Verbauwhede
February 2004 **Proceedings of the conference on Design, automation and test in Europe - Volume 1 DATE '04**
Publisher: IEEE Computer Society
Full text available: pdf(143.96 KB)   Additional Information: full citation, abstract, citings, index terms

This paper describes a novel design methodology to implement a secure DPA resistant crypto processor. The methodology is suitable for integration in a common automated standard cell ASIC or FPGA design flow. The technique combines standard building blocks to make new compound standard cells, which have a close to constant power

consumption. Experimental results indicate a 50 times reduction in the power consumption fluctuations.

19 New directions for integrated circuit cards operating systems

Pierre Paradinas, Jean-Jacques Vandewalle

January 1995 **ACM SIGOPS Operating Systems Review**, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(422.64 KB)   Additional Information: full citation, abstract, index terms

Integrated circuit cards or smart cards are now well-known. Applications such as electronic purses (cash units stored in cards), subscriber identification cards used in cellular telephone or access keys for pay-TV and information highways emerge in many places with millions of users. More services are required by applications providers and card holders. Mainly, new integrated circuit cards evolve towards non-predefined multi-purpose, open and multi-user applications. Today, operating systems imp ...

Keywords: integrated circuit card applications, integrated circuit card operating system, object-oriented technologies, secured method execution

20 Risk transparency: Privacy and security threat analysis of the federal employee personal identity verification (PIV) program

Paul A. Karger

July 2006 **Proceedings of the second symposium on Usable privacy and security SOUPS '06**

Publisher: ACM Press

Full text available: pdf(113.11 KB)   Additional Information: full citation, abstract, references, index terms

This paper is a security and privacy threat analysis of new Federal Information Processing Standard for Personal Identity Verification (FIPS PUB 201). It identifies some problems with the standard, and it proposes solutions to those problems, using standardized cryptographic techniques that are based on the Internet Key Exchange (IKE) protocol [16]. When the standard is viewed in the abstract, it seems to effectively provide security and privacy, because it uses strong cryptographic algorithms. ...

Keywords: personal identification, privacy, smart cards

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